

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference miniferon	FOR FURTHER ACTION	see Notification of (Fransmittal of Intern	national Search Report applicable, item 5 below.
International application No.	International filing date			Date (day/month/year)
		(aay/monin/year)	`	
PCT/FI 03/00736	7 October 2003		7 October	2002
Applicant				
ZAVÝALOV VLADIMIR ET AL				· · ·
This international search report has applicant according to Article 18. A	been prepared by this Intecopy is being transmitted	mational Searchi to the Internation	ng Authority and i al Bureau.	s transmitted to the
. This international search report cons	ists of a total of 5	sheets.		
It is also accompanied by	y a copy of each prior art	document cited is	this report.	•
1. Basis of the report				
 a. With regard to the language, the in the language in which it was 	ne international search was filed, unless otherwise in	s carried out on t dicated under this	he basis of the inte	rnational application
the international search v to this Authority (Rule 2:	vas carried out on the bas 3.1(b)).	is of a translation	of the internation:	al application furnished
b. With regard to any nucleotide international search was carrie			international appl	ication, the
contained in the internati	onal application in writter	ı form.		(f)
filed together with the int	ernational application in o	computer readable	e form.	
furnished subsequently to	this Authority in written:	form.		.
	this Authority in compute		•	
the statement that the sub	osequently furnished writte ion as filed has been furni	n sequence listing	does not go beyo	nd the disclosure in
	ormation recorded in com		rm is identical to t	he written sequence
2. X Certain claims were found	d unsearchable (See Box I)).		
3. Unity of invention is lack	ing (See Box II).			:
4. With regard to the title,				
the text is approved as su	bmitted by the applicant.			*
	hed by this Authority to re	ead as follows:		
-				
_	•			
-		•		A sufficient
5. With regard to the abstract,				
X the text is approved as su	bmitted by the applicant.			
	hed, according to Rule 38 to month from the date of tity.			
6. The figure of the drawings to be p	•	is Figure No	1	
as suggested by the applic				None of the figures.
because the applicant fail	ed to suggest a figure.			
because this figure better	characterizes the invention	n.	٠	

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	INTERNATIONAL SEARCH REPORT	International application No. PCT103/00736		
Box I	Observations where certain claims were found unsearchable (Continuation	n of item 1 of first sheet)		
This inte	mational search report has not been established in respect of certain claims under	Article 17(2)(a) for the following reasons:		
i	Claims Nos.: because they relate to subject matter not required to be searched by this Authorit	y, namely:		
2. 🔀	Claims Nos.: Part of claims 1-6 because they relate to parts of the international application that do not comply w an extent that no meaningful international search can be carried out, specifically see next sheet			

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

This International Searching Authority found multiple inventions in this international application, as follows:

Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report

No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

The additional search fees were accompanied by the applicant's protest. Remark on Protest No protest accompanied the payment of additional search fees. .

Form PCT/ISA/210 (continuation of first sheet (1)) (July1998)

1.

Box II

Claims Nos.:

Internation pplication No. PCT/FI 0-/00736

A. CLASSIFICATION OF SUBJECT MATTER IPC7: A61K 38/04, A61K 38/13, A61K 38/21 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MEDLINE, STN-CAPLUS, EPODOC, WPI, PAJ, EMBASE C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category* National Library of Medicine (NLM), file Medline, PART OF 1-6 P,X Medline accession no. 12845801, Chertkova R.V. et al, "Synthetic proteins with antiviral properties of alpha-interferons", & Bioogranicheskaia Khimiia, Vol. 29, No. 3, PG. 258-268, see the entire document PART OF 1-6 X WO 9852594 A1 (ZAVIALOV, VLADIMIRPETROVICH), 26 November 1998 (26.11.98), claim 2 PART OF 1-6 WO 0244197 A2 (FISH, ELEANOR N.), 6 June 2002 X (06.06.02), Table 1 Further documents are listed in the continuation of Box C. See patent family annex. X later document published after the international filing date or priority date and not in conflict with the application but cited to understand—the principle or theory underlying the invention— Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 3 0 -12- 2003 22 December 2003 Authorized officer Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM FERNANDO FARIETA/BS Facsimile No. +46 8 666 02 86 +46 8 782 25 00 Telephone No.

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Internation	plication No.
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C (Contin	nation). DOCUMENTS CONSIDERED TO BE RELEVANT	Γ			•.	
Category*	Citation of document, with indication, where appropriate, of the	ne relevant pass	ages.	Relevant	to cla	im N
X	STN International, File CA, Chemical Abstaccession no. 138:82960, Chertkova R. "Antiviral properties of de novo desibased on the albeferon and LKDRHDF (3 fragment from human interferon-alpha & Biopolimeri i Klitina (2002), 18(2) abstract	V et al, gned prote 0-36) 2".	ins	PART	OF	1-6
			-			
X	Protein Engineering, Volume 9, No. 2, 199 Dmitry A. Dolgikh et al, "The de novo grafted biological function: transfer interferon blast-transforming activit albebetin", pages 195-201, figure 3	ring of	ith	PART	OF :	1-6
				•		-
A	STN International, File CA, Chemical Abst accession no. 131:101083, Aphasizheva "Influence of a biologically active i fragment on the carrier de novo prote	 I. et al, nterferon in structur 	'e",	PART	0 F 1	1 −6
	&, Biofizika (1998), 43(3), 384-391,	abstract	,			
A	WO 9530759 A1 (RHONE-POULENC RORER S.A.), 16 November 1995 (16.11.95), claims	1-26		PART	0F 1	l-6
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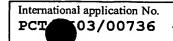
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Internation pplication No., PCT/FI 93/00736

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9852594	A1 26/11/98	AT AU DE EP FI FI JP	234624 T 7435298 A 69812347 D 0981359 A,B 104363 B 972121 A 2001526675 T	15/04/03 11/12/98 00/00/00 01/03/00 00/00/00 20/11/98 18/12/01
WO 0244197	A2 06/06/02	AU	2335002 A	11/06/02
WO 9530759	A1 16/11/95	FR	2719593 A,B	10/11/95



Box I.2

Present claims 1-6 relate to variants of a peptide sequence according to table I (claim 1). The main sequence can be modified with any of the amino acid residues in vertical line under it, generating a huge quantity of possible sequences defined by reference to a desirable characteristic or property, namely to be "fusion peptide sequence".

In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the fusion peptide sequences by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

Consequently, the search has been carried out for those parts of the application which do appear to be clear and concise, namely the exemplified sequence in page 11 corresponding to sequence LKEKKYSP-SS-LKDRHDF, relating to part of claims 1-6.

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